

REMARKS

The Applicant requests reconsideration of the rejection.

Claims 1-6 are pending.

The Examiner objected to the drawings for the reasons set forth on page 2, item 1 of the Office Action. Replacement sheets containing the required amendments to Figures 2 and 20 accompany this Reply under cover of a Transmittal of Formal Drawings Containing Amendments.

Claim 2 has been corrected to address the Examiner's concern on page 2, item 2 of the Office Action. Further, the specification has been amended to correct minor informalities. The Applicant notes that the specification changes have been attempted previously by Preliminary Amendment filed December 13, 1999, but the record does not show entry or consideration by the Examiner.

Claims 1 and 4 were rejected under 35 U.S.C. § 102(e) as being anticipated by Bajzath et al U.S. Patent No. 6,144,644 (Bajzath).

According to claim 1 as amended above, the invention is emphasized with regard to the configuration of a network including a service control point and a user management table referenced by the service control point when a call waiting service request (IN service request) is received by the

service control point. The claimed intelligent network service control point includes first means for receiving the call waiting service request from a terminal, and for receiving an incoming call notification to the terminal from a switching system; the user information management table; and second means for sending an incoming call notification message to the terminal via a gateway with reference to the user information management table when the incoming call notification is received by the first means. The user information management table is used to manage the call waiting request and includes terminal identification information, user status information indicating whether the user is in access to the Internet, and an address of the gateway.

In accordance with the user information management table, the service control point can transfer an incoming call notification message to the terminal through the IP network by specifying the gateway from the table when the incoming call notification message is received, and by transmitting the incoming call notification message to the gateway if the user status information indicates that the user of the terminal is accessing the Internet.

Against these limitations, the Examiner cites Bajzath. However, whereas Bajzath proposes to route a call signal to a service control point 145 by a service switching point 140 when the terminal user dials the Internet service provider 115 so that the service control point performs the service logic for the call waiting service, after which a call is established, the present invention provides notification to the service control point via the gateway connected to the IP network, so that there is no need to add the special modification which Bajzath would require to selectively transfer call signals to the service control point. More particularly, Bajzath requires that the service switching point have, for example, a telephone number table for registering the telephone numbers of Internet service providers, and a function of analyzing the called telephone number in the received call signal to judge whether the call is destined for the Internet via the ISP or a public switch telephone network (PSTN) telephone. Because an increasing number of ISPs already exist and a PSTN itself comprises a number of service switching points, it is not easy to add a new function or to maintain the ISP telephone number table for every existing service switching point in order to implement a

call waiting service according to Bajzath. Moreover, Bajzath does not suggest such a modification.

Thus, Bajzath fails to disclose or suggest the claimed structure which provides the service control point with the call waiting service request via the IP network with respect to a terminal which is currently accessing the Internet.

Therefore, claim 1 is not anticipated by Bajzath.

Similarly, claim 4 recites a service control gateway including structure by which the call waiting service request is transferred from the terminal to the service control point by referring to a service control point address management table and a user address management table. As noted above, however, Bajzath fails to disclose or suggest that the service control point receives the request via the gateway, and thus fails to disclose or suggest the gateway itself. In particular, Bajzath does not show the now-claimed processor which refers to the service control point address management table and user address management table when the request is received, selects a service control point to which the request should be transferred, converts the protocol of the request into that available at the service control point, and sends the thus-converted message to the service control point accordingly.

Claims 2 and 5-6 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Bajzath in further view of Low U.S. Patent No. 6,282,281 (Low). Low fails to add the teachings missing from Bajzath as discussed above. Therefore, claims 2 and 5-6 are not obvious over the combination of Bajzath and Low.

Claim 3 was rejected under 35 U.S.C. § 103(a) as being unpatentable Bajzath in further view of Benson U.S. Patent No. 6,104,800 (Benson). Benson also fails to add the teachings missing from Bajzath as discussed above. Therefore, claim 3 is not obvious over the combination of Bajzath and Benson.

In view of the foregoing amendments and remarks, the Applicant requests reconsideration of the rejection and allowance of the claims.

Respectfully submitted,

  
Daniel J. Stanger  
Registration No. 32,846  
Attorney for Applicant

MATTINGLY, STANGER & MALUR, P.C.  
1800 Diagonal Road, Suite 370  
Alexandria, Virginia 22314  
Telephone: (703) 684-1120  
Facsimile: (703) 684-1157  
Date: May 5, 2004

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